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DATE MAILED: 02/01/2010

NOTICE OF ALLOWANCE AND FEE(S) DUE

22242 7590 02/01/2010 FITCH EVEN TABIN & FLANNERY 120 SOUTH LASALLE STREET SUITE 1600

CHICAGO, IL 60603-3406

EXAMINER				
AMRANY, ADI				
ART UNIT	PAPER NUMBER			
2836				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/661,177	09/12/2003	Steven Carl Crusius	5569/79287	8291
TITLE OF INVENTION, D	C DOWED DACKID			

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/03/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includir ed below or directed oth	or transmitting the ISS ig the Patent, advance nerwise in Block 1, by	orders and notification of a (a) specifying a new corres	naintenance fees wi spondence address;	ed). Blocks I throu II be mailed to the and/or (b) indicating	igh 5 sho current c g a separa	orrespondence address as ite "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
120 SOUTH LA SUITE 1600	7590 02/01 TABIN & FLAN SALLE STREET		I be	Certify that this	ificate of Mailing or	r Transm	
CHICAGO, IL 6	60603-3406						(Depositor's name)
			<u> </u>				(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	:	ATTORNEY DOCKE	T NO.	CONFIRMATION NO.
10/661,177 TITLE OF INVENTION	09/I2/2003 : DC POWER BACKUE	,	Steven Carl Crusius		5569/79287		8291
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE TOTAL FEE	(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$181	0	05/03/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS	1			
AMRAN	AMRANY, ADI 2836			,			
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATA iess an assignee is ident h in 37 CFR 3.11. Comp	inge of Correspondence "Indication form led. Use of a Customer A TO BE PRINTED ON	2. For printing on the p (1) the names of up to or agents OR, alternati (2) the name of a sing project of atterney or 2 registered atterney or 2 registered patent and listed, no name will be THE PATENT (print or try to data will appear on the p Of a substitute for filing an (B) RESIDENCE: (CTI'N	o 3 registered patent vely, le firm (having as a agent) and the name meys or agents. If n printed. pe)	attorneys I		rument has been filed for
Please check the appropri		-					p entity Government
4a. The following fee(s) are submitted: Issue Fee Justication Fee (No small entity discount permitted) Advance Order - # of Copies			4b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	rd. Form PTO-2038	is attached.		
	s SMALL ENTITY state	as. See 37 CFR 1.27.	☐ b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accept ites Patent and Tradema	ted from anyone other than t rk Office.	the applicant; a regis	tered attorney or age	nt; or the	assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration No			
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but firginia 22313-1450. DC 13-1450.	EFR 1.311. The informat U.S.C. 122 and 37 CFI USPTO. Time will var den, should be sent to t O NOT SEND FEES OR	tion is required to obtain or a R 1.14. This collection is est ry depending upon the indivi the Chief Information Office & COMPLETED FORMS To	retain a benefit by th timated to take 12 m vidual case. Any cor er, U.S. Patent and T O THIS ADDRESS.	e public which is to inutes to complete, nments on the amou rademark Office, U SEND TO: Commi	file (and l including int of time .S. Depar ssioner fo	by the USPTO to process) gathering, preparing, and e you require to complete tment of Commerce, P.O. r Patents, P.O. Box 1450,

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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/661,177		09/12/2003	Steven Carl Crusius	5569/79287	8291
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120 SOUTH LA	SALLE	STREET		ART UNIT	PAPER NUMBER
SUITE 1600 CHICAGO, IL 6	60603-34	06		2836 DATE MAILED: 02/01/201	n

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 161 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 161 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/661,177	CRUSIUS ET AL.	
Examiner	Art Unit	
ADI AMRANY	2836	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative

- of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.
- 1. This communication is responsive to amendment filed 6 January 2010.
- The allowed claim(s) is/are 15-22,24-30 and 32-40.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) \(\subseteq \text{Some* c} \) \(\subseteq \text{None of the:} \) a) \square All
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

Application/Control Number: 10/661,177 Page 2

Art Unit: 2836

EXAMINER'S AMENDMENT

 An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Nicholas Peters on January 28, 2010.

The application has been amended as follows: please amend the last three (3) lines of claim 16 as follows.

Claim 16: "conduction path without being substantially adjusted by any other intervening electrical device along the operator conduction path when mains voltage to the mains voltage input fails."

- Claims 15-22, 24-30 and 32-40 are allowed.
- The following is an examiner's statement of reasons for allowance:

Regarding claim 15, the prior art does not teach or suggest a battery backup apparatus connected with a movable barrier operator, comprising, inter alia, the battery is charge through an impedance element in parallel with the second unidirectional isolation device and the plug, and the battery backup voltage is provided through the second unidirectional isolation device, the plug, and the unidirectional isolation device when the mains voltage to the movable barrier operator fails. Claims 25-30 and 32 depend from claim 15.

Application/Control Number: 10/661,177 Art Unit: 2836

Regarding claim 16, the prior art does not teach or suggest a battery backup apparatus in combination with a movable barrier operator, where the movable barrier operator comprises an operator unidirectional isolation device in parallel with an impedance element, and where the battery backup apparatus comprises a battery unidirectional isolation device between the battery and the battery conducting path, wherein the battery provides DC voltage to the movable barrier operator via the battery unidirectional isolation device, the plug, and the operator unidirectional isolation device. Claims 17-22 and 24 depend from claim 16.

Regarding claim 33, the prior art does not teach or suggest a battery backup apparatus in combination with a movable barrier operator, where the movable barrier operator comprises an operator unidirectional isolation device in parallel with an impedance element, and where the battery backup apparatus comprises a battery unidirectional isolation device between the battery and the battery conducting path, wherein the battery provides DC voltage to the movable barrier operator via the battery unidirectional isolation device, the plug, and the operator unidirectional isolation device. Claims 34-40 depend from claim 33.

It appears that the most relevant prior art reference is US 7,391,184 (Luo), which discloses a conduction path between the DC bus of a power consuming device (fig 2, 4; 110, 230 and 310,330) and an attachable backup battery (120, 320), where the battery discharges via diodes (429, the anti-parallel diode of Q2) that bypass the battery charger (fig 4, item 414, 420) and an impedance element (fig 2, item Q2). Luo, however, was not known the art before applicants' filing date.

Application/Control Number: 10/661,177

Art Unit: 2836

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ADI AMRANY whose telephone number is (571)272-0415. The examiner can normally be reached on Mon-Thurs, from 10am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jared Fureman can be reached on (571) 272-2800 x36. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/661,177 Page 5

Art Unit: 2836

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

AA

1-27-10

/Stephen W Jackson/

Primary Examiner, Art Unit 2836